



[ExPASy Home page](#)

[Site Map](#)

[Search ExPASy](#)

[Contact us](#)

[Swiss-Prot](#)

[ENZYME](#)

Search for

NiceZyme View of ENZYME: EC 4.2.1.84

Official Name

Nitrile hydratase.

Alternative Name(s)

Nitrilase.

Nitrile hydro-lyase.

Reaction catalysed

An aliphatic amide \rightleftharpoons a nitrile + H(2)O

Comment(s)

- Acts on short-chain aliphatic nitriles, converting them into the corresponding acid amides.
- Does not act on these amides or on aromatic nitriles (cf. EC 3.5.5.1).

Cross-references

BRENDA 4.2.1.84

PUMA2 4.2.1.84

PRIAM enzyme-specific profiles 4.2.1.84

KEGG Ligand Database for
Enzyme Nomenclature 4.2.1.84

IUBMB Enzyme Nomenclature 4.2.1.84

IntEnz 4.2.1.84

MEDLINE Find literature relating to 4.2.1.84

MetaCyc 4.2.1.84

UniProtKB/Swiss-Prot

P21219, NHA1_RHORH; P29378, NHA2_RHORH; P27764, NHAA_PSECL;
P97051, NHAA_PSEPU; Q7SID2, NHAA_PSETH; P13448, NHAA_RHOER;
Q53118, NHAA_RHOSO; P27763, NHAB_PSECL; P97052, NHAB_PSEPU;
Q7SID3, NHAB_PSETH; P13449, NHAB_RHOER; Q53117, NHAB_RHOSO;
P21220, NHB1_RHORH; P29379, NHB2_RHORH;

[View entry in original ENZYME format](#)

[View entry in raw text format \(no links\)](#)

All UniProtKB/Swiss-Prot entries referenced in this entry, with possibility to download in different formats, align etc.

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 4.2.1.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 4.2.-.-

All ENZYME / UniProtKB/Swiss-Prot entries corresponding to 4.-.-.-



[ExPASy Home page](#)

[Site Map](#)

[Search ExPASy](#)

[Contact us](#)

[Swiss-Prot](#)

[ENZYME](#)